

Further than this no difficulty is foreseen with respect to suitable assistants in the execution of the work, inasmuch as the details call for nothing beyond intelligence, method, and the degree of zeal which may be expected to come of itself to a task so directly competitive with a similar undertaking. Many young men may with ease be found who would readily and efficiently take their part in such a work, for such inducement of pay and position as would ordinarily be offered in such a case; and though the annual amount of salaries would be larger than the Society has hitherto applied to Government to provide at their suggestion, the total is but little in comparison with what has been granted in past years for other scientific purposes. There is the great advantage, in this instance, that the work is perfectly defined by the parallel Survey in the North, and that the return for the outlay may be regarded as certain beforehand.

"4. Lastly, the Committee have to mention that the Director of the Madras Observatory has notified his intention of executing a portion of this work forthwith at his station, which, apart from the accidents of life and health in an unhealthy place, may be expected to somewhat reduce the extent of the area to be surveyed independently of him. But it will be borne in mind that Madras is 13° N. of the Equator, and that this notice from Mr. Pogson can at most slightly modify the general proposal before the Council.

"5. The Committee have agreed to report thus generally, in the first instance, on the state of the case, and on the questions involved in the proposal which might otherwise be thought to entail difficulties with which it is in fact not surrounded, and abstain from making special recommendations till the inclination of the Council to move in the matter has been ascertained."

The Council, which this day retires, have thus endeavoured by preliminary inquiry to clear the ground for action in this matter on the part of their successors in office, to whom they commend the further promotion of the undertaking.

Papers read before the Society from February 1862 to February 1863.

1862.

- Mar. 14. Discovery and Observations of Comet III. 1861.
 Mr. Bond.
 On the Perturbations of *Uranus* and Mass of *Jupiter*.
 Mr. Safford.
 On the Proper Motion of *Sirius* in Declination. Mr.
 Safford.

- Moon Culminators, Greenwich, Sydney, and Cape of Good Hope. Mr. Scott.
- Observations of Comet II. 1861. Mr. Mackay.
- On the Irregularity of the Proper Motion of *Sirius*. M. Auwers.
- Observations at Malta: Discovery of New Star in Trapezium of *Orion*. Mr. Lassell.
- Transit of *Mercury*, &c. Mr. Abbott.
- Ephemeris of Long-Period Variable Stars for 1862. Mr. Pogson.
- On some Variable Stars. Mr. Knott.
- Observations of Transit of *Mercury* and Solar Eclipse. M. Bulard.
- On Astronomical Refraction. Mr. Yates.
- Occultation observed at Highbury. Mr. Burr.
- Orbit of ξ *Ursæ Majoris*. Mr. Breen.
- Observations of Solar Eclipse, Dec. 31, 1861. M. D'Arcy.
- Apr. 12. On Solar Spots. M. Jeanjaquet.
- Rediscovery of *Alhazen*, a supposed Lunar Crater. Mr. Birt.
- Opposition of *Mars*, &c. Lieut. Gilliss.
- Observations of Encke's Comet. Mr. Hartnup.
- On the Disappearance of a Nebula in *Coma Berenices*. Sir J. Herschel.
- Note of a Circular Dark Spot on the Sun's Disk. Mr. Lummis.
- Transit of *Mercury*. Mr. Abbott.
- May 9. Observation of a Meteor, April 14, 1862. Mr. Gorton.
- Transit of the Shadow of *Titan* across the Disk of *Saturn*. Rev. W. R. Dawes.
- On Heliotypography. Mr. De La Rue.
- On Hind's Nebula in *Taurus*. M. O. Struve.
- Results of Meridional Observations of Small Planets, March 1862. Mr. Airy.
- On the Asteroid *Feronia*. Dr. Peters.
- Observations at Cambridge of Comet II. 1861. Mr. Adams.
- Extract of Letter to Mr. Carrington on the Intra-Mercurial Planet. Mr. Littrow.
- Extract of Letter to the Astronomer Royal on the Transit of *Mercury*. Mr. Todd.
- On Encke's Comet: Extract of Letter to the Astronomer Royal. Sir T. Maclear.
- On Lambert's Theorem for Elliptic Motion. Mr. Cayley.
- On a Solar Spot and on a Transit of *Titan* over *Saturn*. Mr. Gorton.
- Observation of the Appearance of the Ansæ of *Saturn*. Mr. Carpenter.

- On the Variable Star *U Geminorum*. Mr. Baxendell.
 Transit of the Shadow of *Titan*. Mr. Lockyer.
 Observations of Comet I. 1861. Sir T. Maclear.
 Announcement of New Instrument for Indian Trigonometrical Survey. Col. Strange.
- June 13. Results of Meridional Observations of Small Planets.
 Mr. Airy.
 On the Appearance of *Saturn's* Ring. Mr. Birt.
 On the Solar Energy in the Autumn of 1861 and Spring of 1862. Mr. Birt.
 Occultation: Disappearance of *Jupiter's* 1st Satellite.
 Mr. Talmage.
 Extract of Letter from Dr. Winnecke. Rev. R. Main.
 Disappearance of B.A.C. 4923 at the Moon's Dark Limb, 1862, June 9. Rev. R. Main.
 Letter to the Astronomer Royal. M. Hoeck.
 Extract of Letter to the Astronomer Royal. Mr. Scott.
 On the Missing Nebula in *Coma Berenices*. M. Chacornac.
 On some Phenomena attending the Disappearance of *Saturn's* Ring, May 19, 1862. Mr. Huggins.
 On the Periodical Changes in the Belts and Surface of *Jupiter*. Mr. Huggins.
 Saturnian Phenomena. Rev. W. R. Dawes.
 On the Appearance of *Jupiter* without a Visible Satellite, Sept. 1843. Rev. W. R. Dawes.
 On the Proposed Parallax. Observations of *Mars*, 1862. Prof. Smyth.
 On the Solution of Kepler's Problem. M. De Gasparis.
 Description of a New Aplanatic Eye-piece for Telescopes. Mr. Burr.
 On the Mean Places of certain Fixed Stars. M. C. Rümker.
 On a Solar Spot. Mr. Hodgson.
- Nov. 14. On the Cluster α *Crucis*. Mr. Abbott.
 Observations of the Horizontal Refraction of the Sun.
 Major Lang.
 On the Irregularities of the Motion of *Procyon*. Mr. Lynn.
 On the Practicability of Observing the Occultation of Stars by the Moon at Sea. Mr. Smith.
 Extract of a Letter from Dr. Wolfers. Rev. R. Main.
 Measures of the Planet *Mars*. Rev. R. Main.
 Observations of Comet II. 1862. Mr. Knott.
 Ditto ditto Mr. Hartnup.
 Ditto ditto Mr. Chalmers.
 Ditto ditto Lieut. Chimmo.
 Observations of a Comet. Mr. Abbott.
 On the Extraordinary Brightness of the Lunar Spot *Aristarchus*. Dr. Stothardt.

- On a Remarkable Chain of Lunar Craters. Mr. Birt.
 On a New Method of obtaining the Value of the Divisions of a Transit Level. Capt. Noble.
 On Combining the Angles of Regular Polyhædrons. Mr. Drach.
 On Excentric and Centric Force. Mr. Pratt.
 On the Identity of the Triple Star H. I. 13. Rev. W. R. Dawes.
 Second Series of Observations of Double Stars at Madras. Mr. Powell.
 On the Motion of a Pendulum with especial reference to the Foucaultian Experiment. Mr. Wackerbarth.
 On Aluminium Bronze. Col. Strange.
 Telescopic Appearance of *Mars*. Mr. Grove.
 Letter to Mr. De La Rue on the True Figure and Dimensions of the Earth. M. Von Gumpach.
 Account of Observations with the Elchies Equatoreal. Prof. C. P. Smyth.
 Observations of Comet II. 1862. Rev. R. Main.
 Dec. 12. On the Variable Star R *Vulpeculæ*. Mr. Knott.
 A last Letter from Capt. Jacob. Prof. C. P. Smyth.
 Letter presenting Helioautographs. Rev. Prof. Selwyn.
 Observations on *Saturn*. Mr. Wray.
 A New and Close Approximation to the Circumference of the Circle, &c. Mr. Drach.
 On the Gregorian Calendar. Mr. Drach.
 Observations of a Comet. Mr. Cockburn.
 On the Form of Lenses for Negative Eye-piece of Telescopes. Mr. Airy.
 On the Great Solar Spot of August 4, 1862. Mr. Howlett.
 1863.
 Jan. 9. Extract of Letter to the Astronomer Royal. M. Auwers.
 Letter, with Observations of *Saturn* made at Pulkowa and Greenwich. Mr. Airy.
 Observations of *Mars*. Mr. Joynson.
 Observations of a Comet in Australia. Mr. Tebbutt.
 Observations of *Asia* (67). Mr. Hartnup.
 Observations of Comet II. 1862. M. Romberg.
 Results of Meridional Observations of Small Planets. Mr. Airy.
 On the Observations made with the Elchies Equatoreal. Rev. W. R. Dawes.
 Elements and Ephemeris of *Feronia* (71). Dr. Peters.
 On the Elchies Equatoreal. Mr. Knott.
 Note on U *Geminorum*. Mr. Baxendell.